BRUHAT BANGALORE MAHANAGARA PALIKE

Rajarajeshwari nagar Zone

Detailed Estimate for Public works

Name of the work:-Operation and maintenance of street lighting system in ward no-16, Package R1 of Rajarajeshwari Nagar Zone.

Budget Head :-P0300 M & R to street lights- Replacement of Burntbulbs etc (Package)

Est.Cost Rs 18,00,000/-

Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
	Part A. Operation and Maintenance				
1 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **36/40 watt fluoroscent tube light street lighting systems.**	90	685.45	Each	61690.50
2 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **125 watt HPMV park lighting systems.**	12	756.29	Each	9075.48
3 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **250 watt HPSV street light lighting systems.**	1050	1019.41	Each	1070380.50
4 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **400 watt HPSV street light/high mast lighting systems.**	48	1118.08	Each	53667.84
5 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device., Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **65 watt LED street light lighting systems.**	185	1147.43	Each	212274.55

Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
6 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **90 watt LED street light lighting systems.**	100	1377.66	Each	137766.00
7 P.No-61 I.No-7.6.4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 25 + 1 X 25 SQ.MM (KPWD Ele SR 2014-15.)	820	143.00	Mtr	117260.00
	Total Part A				1662114.87
	Part B. Items from KPWD Elec SR-2019-20 & KPWD Civil SR 2018-19 Work to be carried out as per requirement & actuals and as per the directions of the Engineer in charge.				
	Description of Work	**Qty.**	**Rate**	**Unit**	
8 P.No-XVII I.No -451.	Supplying of Microprocessor Based Astronomical timer Switch	8	2418.00	Each	19344.00
9 P.No-XIV I.No- 244	Supplying of 4 Pole Power contactor with NO/NC Contactor 100-125 amps.	14	4320.00	Each	60480.00
10 P.No-XV I.No- 283	Supplying of 50-63Amps TPN Miniature Circuit Breakers	2	1438.20	Each	2876.40
11 P.No-XVI I.No- 445.	Supplying of Outdoor Type Thermoplastic Modular Panel Enclosure. 300mmX450mmX214mm.	6	3076.20	Each	18457.20
12 P.No-40, I.No-6.4.5	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. 3.5 core 25 sqmm.	50	180.00	Mtr	9000.00
13 P.No-41, I.No-6.6.1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB I-2, P-7). In Soil (ordinary)	50	76.00	Mtr	3800.00
14 P.No-30, I.No-5.42.2	Fabricating supplying and mounting MS box made out 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. 16SWG	20000	0.35	Sqcm	7000.00

AEE (Ele.)

(B)

Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
15 P.No-30, I.No-5.41.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40X40X6mm	8	255.00	Mtr	2040.00
	Total Part B				122997.60
	GST @12% on Part B				14759.71
	Miscellaneous Charges				127.82
	Grand Total				1800000.00
	Rupees Eighteen Lakh Only Paise Zero Only				

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provisions made in the estimate are adequate and necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the BBMP Funds.
4. The rates in the Estimate is based on the approved Data rates and KPWD Ele SR -2014-15 and 2019-20.

Junior Engineer (Elec)

Asst. Exe.Engineer (Elec),
Rajarajeshwari Nagar Zone,
Bruhat Bangalore Mahanagara Palike.

EXECUTIVE ENGINEER (ELEC),
RAJARAJESHWARI NAGAR ZONE,
BRUHAT BANGALORE MAHANAGARA PALIKE.

Administrative Sanctioned for Rs 1800000.00
Rs. Eighteen lakhs only. is accorded
under the P0300
By EE (Elect) RRN/ page 30 of 31.
Registered as R.R.N. No. 50/19-20 Subject to conditions contained in enclosed memo No. 50/19-20. Date 9/1/20.
AE, (Elect) RRN
EE, (Elect) RRN

Technically Sanctioned for Rs. 1800000-00
Rs. Eighteen lakhs only is accorded
under the head P0300
By EE (Elect) RRN/ page 28 to 29
Registered as R.R.N. No. 51/19-20 Subject to conditions contained in enclosed memo No. 51/19-20. 10/1/20
AE, (Elect) RRN
EE, (Elect) RRN